

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF VIDEO DETECTION FOR PRESENCE DETECTION FOR ALL APPROACHES AT THE INTERSECTION OF MD 177 (MOUNTAIN ROAD) AND THE SOUTHDALE SHOPPING CENTER WEST ENTRANCE IN ANNE ARUNDEL COUNTY. ALL EXISTING TRAFFIC SIGNAL HEADS WILL REMAIN. MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR THE MAINLINE AND SIDE STREET SPLIT PHASING.

CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL THE NEW VIDEO INTERFACE EQUIPMENT WITHIN THE EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1019

Mr. John S. Mays
Assistant District Engineer - Utility
Phone: 410-841-1039

Mr. Chuck E. George
Assistant District Engineer - Maintenance
Phone: 410-841-1013

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

The Power Company is:
Baltimore Gas and Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8001	2 EA	CLAMP ON LIGHTING ARM - 20 FT.
8004	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT (PER ASSIGNMENT)
8026	4 EA	VIDEO DETECTION CAMERA
8027	2 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8028	2 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

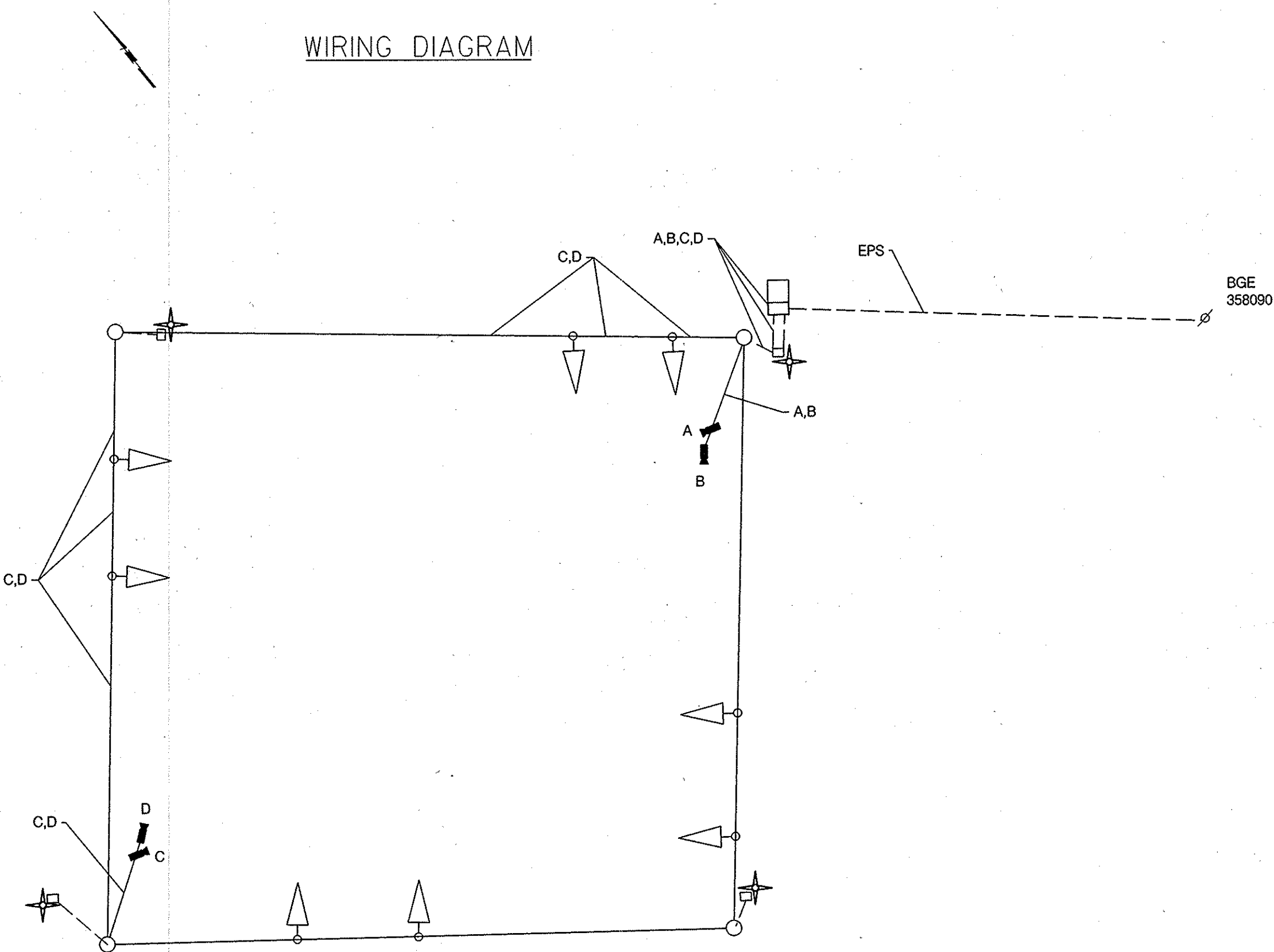
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



A CONTROL CABLE, 250 FOOT, VIDEO
B DETECTION CAMERA TO CONTROLLER

C CONTROL CABLE, 500 FOOT, VIDEO
D DETECTION CAMERA TO CONTROLLER

EPS EXISTING POWER SOURCE

EXISTING GROUND ROD - 3/4 INCH
DIAMETER X 10 FOOT LENGTH.

PHASE CHART

	1	2	3	4	5	6	7	8	
PHASE 1 & 5	R	R	R	R	R	R	R	R	
PHASE 1 & 5 CHANGE	CONTROLLER MAY SKIP TO PHASE 1 & 6, 2 & 5, OR 2 & 6								
PHASE 1 & 6	G	G	R	R	R	R	R	R	
PHASE 1 CHANGE	G	G	R	R	R	R	R	R	
PHASE 2 & 5	R	R	G	G	R	R	R	R	
PHASE 5 CHANGE	R	R	G	G	R	R	R	R	
PHASE 2 & 6	G	G	G	G	R	R	R	R	
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 3	R	R	R	R	G	G	R	R	
PHASE 3 CHANGE	R	R	R	R	Y	Y	R	R	
PHASE 4	R	R	R	R	R	G	G	R	
PHASE 4 CHANGE	R	R	R	R	R	Y	Y	R	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

TOD No.: AT724-12
SHA No.: AA538A57/B57



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 177 (MOUNTAIN ROAD) AND
SOUTHDALE SHOPPING CENTER WEST ENTRANCE

GENERAL INFORMATION

SCALE NONE DATE 8/2006 CONTRACT NO. AT7245185

DESIGNED BY MCG COUNTY ANNE ARUNDEL
DRAWN BY MCG LOGMILE 02017700.21
CHECKED BY BAB CSW T.I.M.S. NO. H885
F.A.P. NO. TOD NO.

DRAWING NO. TS-2215A OF SHEET NO. 2 OF 6



engineers/architects/planners/construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

PLOTTED: THURSDAY, JULY 20, 2006 AT 02:31 PM
FILE: I:\PROJECTS\0312513\0312513_0025\DRAWINGS\TRAFFIC\WEST ACCESS\PSG-P001.MD177.DGN